SUBMISSION ID: 1128358 Emerald BioEnergy FACILITY: LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: Revision 4IN00204*BD **STATION CODE:** 581

MONITORING PERIOD: 2022-01-01 To: 2022-01-31

REPORTING LAB: Renergy ANALYST: Jeffrey williamson

NO DISCHARGE INDICATOR: AL

PARAMETER	рН	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total in Sludge	Potassium In Sludge	Arsenic, Tot In Sludge	al Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	
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Page 1

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:581

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeffrey williamson

NO DISCHARGE INDICATOR: AI

			N	D DISCHARGE I	NDICATOR:	AL	
PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fer Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING	Composite	Composite	Composite	Composite	Composite	Total	Total
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Page 2

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:581

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeffrey williamson

NO DISCHARGE INDICATOR: AL

			NO	D DISCHARGE II	NDICATOR:	AL	
PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING	C	f					
TYPE	Composite	Composite					
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Page 3

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeff Williamson

NO DISCHARGE INDICATOR: AL

				O DISCHARGE II	IDICATON.	AL	
PARAMETER	рН	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total in Sludge	Potassium In Sludge	Arsenic, Tot In Sludge	al Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
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SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeff Williamson

NO DISCHARGE INDICATOR: AL

			N	D DISCHARGE I	NDICATOR:	AL	
PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fer Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING	Composite	Composite	Composite	Composite	Composite	Total	Total
TYPE 2022-01-01	·	-		-			
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Page 5

SUBMISSION ID: 1128358 STATUS: Revision FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: STATION CODE: 4IN00204*BD

MONITORING PERIOD: Cardington, OH 43315

COUNTY: Morrow **REPORTING LAB:** Renergy DISTRICT: CDO ANALYST: Jeff Williamson

			NO	DISCHARGE IN	IDICATOR:	AL	
PARAMETER	Mercury, Total In Sludge	Molybdenum in Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
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SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:601

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeff Williamson

NO DISCHARGE INDICATOR: AL

PARAMETER Loading Rate Glidge Solids, Percent Total Percent Volatile COD, Soluble Loading Rate (OLR) PARAMETER Side 70318 70322 8016 99981 UNITS GPD % % % mg/l lbic(rday) FREQUENCY 1/Week 1/Week 1/Week 1/Week 1/Week 1/Week 5AMPLING TYPE Continuous Composite Composit				••	O DISCHARGE II		AL	
CODE 10/05 7/918 7/912 39991	PARAMETER	Loading Rate		Percent	COD, Soluble	Loading Rate		
UNITS		51028	70318	70322	80116	99981		
FREQUENCY 1/Week		GPD	%	%	ma/l	lb/cf/day		
SAMPLING TYPE Continuous Composite Composite Composite Continuous Continuous Composite Continuous Continuous Composite Continuous Con	000000000000000000000000000000000000000	***************************************				diamento con contrato contrato con contrato con contrato con contrato con contrato		
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2022-01-28 2022-01-29 2022-01-30 2022-01-31 Minimum Average Count Name of Responsible of Responsible of Responsible of Authorized Representative Familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate Jeffrey Submission Date/Time Certification Version Date								
2022-01-28 2022-01-30 2022-01-31 Minimum Maximum Average Count Name of Responsible Official or Authorized Representative Representative I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate Signature of Responsible Official or Authorized Representative Authorized Representative Certification Version Date C			<u> </u>					
2022-01-30 2022-01-31 Minimum Maximum Average Count Name of Responsible I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate Jeffrey Jeffrey Certification Version Date								
2022-01-31 Minimum Maximum Average Count Name of Responsible I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate Jeffrey Submission Authorized Representative Certification Version Date								
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possibility of fine and imprisonment.		possib	ility of fine and	imprisonment.				

Page 7

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:602

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeremy Kanaird

NO DISCHARGE INDICATOR:

PARAMETER				N	D DISCHARGE I	NDICATOR:		
CODE 39978 COUNTY CONTINUOUS COMPOSITE COMPOSITE CONTINUOUS CONTINUOUS COMPOSITE CONTINUOUS CONTIN	PARAMETER		рН					
FREQUENCY 1/Day 3/Week 3/Week 1/Week 1/Week 5AMPLING Continuous Composite Composite Composite Continuous 7/PP		99978	00400	00410	99980	72026		
SAMPLING TYPE Continuous Composite Composite Composite Continuous	UNITS	F	S.U.	mg/l	mg/l	days		
Type	FREQUENCY	1/Day	3/Week	3/Week	3/Week	1/Week		
2022-01-02 96		Continuous	Composite	Composite	Composite	Continuous		
2022-01-03 97 7.446 4819 2522.9 31								
2022-01-06 95 7.501 5476 2537								
2022-01-05 96 7.475 5284 2391.76			*			31		
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Page 8

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:603

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

PARAMETER	Solids, To Volatile		Sludge Solids, Percent Volatile	COD, Soluble	Oil and Grease, Hexane Extr Method	Foreign Matter, percent		
PARAMETER CODE	00157		70322	80116	00552	99979		
UNITS	% Remov	ed	%	mg/l	mg/l	%		
FREQUENCY	1/Week	**********	1/Week	1/Week	1/Month	1/Month		
SAMPLING TYPE	Calculate		Composite	Composite	Composite	Composite		
2022-01-01		************						
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Page 9

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:604

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Josh Ropke

NO DISCHARGE INDICATOR:

			N	D DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING	Total	1					
TYPE	IULAI	Total					
2022-01-01		1					
2022-01-02	7	F 40F07					
2022-01-03 2022-01-04	11	5.48507					
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2022-01-09				***************************************			
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2022-01-29	1	5.48507					
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Minimum	1.0						
Maximum	1.0						
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Page 10

SUBMISSION ID: 1128358 FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: Revision PERMIT NUMBER: STATION CODE: 4IN00204*BD

MONITORING PERIOD:

REPORTING LAB: Renergy ANALYST: Josh Ropke

2022-01-01 To: 2022-01-31

NO DISCHARGE INDICATOR:

			N	O DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING							
TYPE	Total	Total					
2022-01-01 2022-01-02							
2022-01-03	2	.38769					
2022-01-04							
2022-01-05							
2022-01-06							
2022-01-07			•••••				
2022-01-08 2022-01-09		•		***************************************			
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2022-01-10	- Maria	.30/09					
2022-01-12		-					
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2022-01-24	2	.38769					
2022-01-25		-					
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2022-01-27		-					
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2022-01-31							
Minimum	2.0						
Maximum	2.0						
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Page 11

SUBMISSION ID:1128358STATUS:RevisionFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:606

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Josh Ropke

NO DISCHARGE INDICATOR:

			NC	DISCHARGE I	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING	Total	Total					
TYPE							
2022-01-01 2022-01-02							
2022-01-02	2	.33176					
2022-01-04	- Can	133270					
2022-01-05							
2022-01-06							
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2022-01-08	***************************************	-		~~~~			
2022-01-09 2022-01-10	2	32176	ļ	***************************************			
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2022-01-27							
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2022-01-29		.331/0					
2022-01-31		8					
Minimum	2.0						
Maximum	2.0			***************************************			
Average	2					000000000000000000000000000000000000000	180000000000000000000000000000000000000
Count	5						
Name of Resp Official or Auti Representa	horized _{have p} tive _{familia}	fy under the per personally exam ar with the infor tted herein and	rmation	I Signature o Author	f Responsible (ized Represent		Submission Date/Time
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Page 12

SUBMISSION ID: 1128358 STATUS: Revision FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: STATION CODE: 4IN00204*BD

MONITORING PERIOD: Cardington, OH 43315

COUNTY: Morrow **REPORTING LAB:** Renergy DISTRICT: CDO ANALYST: Josh Ropke

			N	O DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2022-01-01							
2022-01-02	~	205714					
2022-01-03 2022-01-04	2	2.85714					
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2022-01-07							
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Average	2			***************************************	300000000000000000000000000000000000000	000000000000000000000000000000000000000	
Count	5,						
Name of Respo			nalty of law that	I Signature of	f Responsible	Official or	Submission Date/Time
Official or Auth Representa	Street of b	personally exam	ined and am	Autnor	ized Represent	ative	vate/IIIIe
wehtezeuta.	år.cr.rrrrrr	ar with the info					
***************************************		tted herein and			***************************************		***************************************
		y of those indiv		_			
			ble for obtaining	J		I	Certification
Inffra	the ini	formation, I beli					Version Date
Jeffre			is true, accurat	e			2022-03-
Williams		omplete. I am aw					2022-03-
a a constituent to	false i	nformation, inc		y			10 14:03
********************************	possib	oility of fine and	<u>ımprisonment.</u>				

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SUBMISSION ID: 1128358 STATUS:
FACILITY: Emerald BioEnergy PERMIT NUMBER:
LOCATION: 2881 Co Rd 156 STATION CODE:

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Josh Ropke

NO DISCHARGE INDICATOR:

Revision

4IN00204*BD

			N	D DISCHARGE II	IDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2022-01-01							
2022-01-02							
2022-01-03	1	1.36200					
2022-01-04 2022-01-05							
2022-01-06							
2022-01-07		1					
2022-01-08					***************************************		
2022-01-09		1 26262					
2022-01-10 2022-01-11	1	1.36200					
2022-01-11							
2022-01-13							
2022-01-14							
2022-01-15							
2022-01-16				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************		
2022-01-17 2022-01-18	11	1.36200		***************************************	***************************************		
2022-01-18					***************************************		
2022-01-20							
2022-01-21							
2022-01-22							
2022-01-23	7	1 20200					
2022-01-24 2022-01-25	11	1.36200					
2022-01-26		†					
2022-01-27		•					
2022-01-28							
2022-01-29	1	1.36200					
2022-01-30		<u> </u>					
2022-01-31 Minimum	1.0						
Minimum Maximum	1.0	<u> </u>					
Average	1.0						
Count	5		000000000000000000000000000000000000000	000000000000000000000000000000000000000	601000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
Name of Respo	onsible I certi	fy under the per personally exam	nalty of law that	I Signature o	f Responsible (ized Represent		Submission Date/Time
Representa	tive familia submit	ar with the infor tted herein and	mation based on my	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		I V V	
inquiry of those individuals immediately responsible for the information, I believe th submitted information is true and complete. I am aware the are significant penalties for false information, including possibility of fine and impri			ble for obtaining eve the is true, accurat vare that there es for submitting auding the	9			Certification Version Date 2022-03- 10 14:03

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SUBMISSION ID: 1128358 STATUS: Revision FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: STATION CODE: 4IN00204*BD

MONITORING PERIOD: Cardington, OH 43315

COUNTY: Morrow **REPORTING LAB:** Renergy DISTRICT: CDO ANALYST: Josh Ropke

			N	O DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2022-01-01							
2022-01-02		20.75050					
2022-01-03	2	20.76969					
2022-01-04 2022-01-05							
2022-01-06		8	 				
2022-01-07		8					
2022-01-08							
2022-01-09							
2022-01-10	2	20.76969					
2022-01-11							
2022-01-12		<u> </u>					
2022-01-13							
2022-01-14							
2022-01-15 2022-01-16		1	-				
2022-01-16	2	20.76969					
2022-01-18		20.70303		***************************************	•••••	***************************************	
2022-01-19		-					
2022-01-20		000					
2022-01-21							
2022-01-22							
2022-01-23							
2022-01-24	2	20.76969					
2022-01-25							
2022-01-26 2022-01-27			.				
2022-01-27		-					
2022-01-29	2	20.76969					
2022-01-30	Char	20170303					
2022-01-31							
Minimum	2.0						
Maximum	2.0						
Average	2						
Count	5			000000000000000000000000000000000000000	000000000000000000000000000000000000000	800000000000000000000000000000000000000	100000000000000000000000000000000000000
Name of Respo Official or Auth Representa	orized _{have p} tive _{familia}	fy under the per personally exam ar with the infor tted herein and	rmation	I Signature o Author	f Responsible (ized Represent	Official or ative	Submission Date/Time
inquiry of those individimmediately responsible the information, I believe submitted information in and complete. I am awa are significant penalties false information, inclusions possibility of fine and in			iduals ble for obtaining eve the is true, accurat vare that there es for submittin luding the	е			Certification Version Date 2022-03- 10 14:03

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FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: MONITORING PERIOD: 4IN00204*BD

2022-01-01 To: 2022-01-31

Cardington, OH 43315

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
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